

1. (amended) An optical record carrier comprising a recording layer having substantially parallel tracks for recording information in a pattern of optically detectable marks, the tracks being provided with wobbled grooves and predetermined positions at regular intervals along the tracks, part of the predetermined positions forming information positions on which information is stored in the form of pits, ~~characterised in that~~ and the phase of the wobble at the information positions is adapted to the presence of a pit at such a predetermined position, and the wobble changes phase between each two subsequent predetermined positions of which one of the positions contains no pit and the other position is an information position containing a pit.

2. (amended) The optical ~~Optical~~ record carrier ~~according to~~ of Claim 1, wherein the number of periods of the wobble on the record carrier having a phase pertaining to an information position containing no pit is larger than the number of periods of the wobble having a different phase.

3. (amended) The optical ~~Optical~~ record carrier ~~according to~~ of Claim 1, wherein the predetermined positions are arranged in cells, and the first period of the wobble after the start of the cell pertains to an information position having a pit.

4. (amended) The optical ~~Optical~~ record carrier ~~according to~~ of Claim 1, wherein the wobble has a minimum value at an information position with pit and a maximum value at an information position without pit.

5. (amended) The optical ~~Optical~~ record carrier ~~according to~~ of Claim 1, wherein the information positions are grouped in series

and the wobble in between the series of information positions in the track direction represents information.

6. (amended) The optical ~~Optical~~ record carrier ~~according to~~ of Claim 5, wherein the information in the wobble is encoded by phase-shift keying.

7. (amended) The optical ~~Optical~~ record carrier ~~according to~~ of Claim 1, wherein the predetermined positions are arranged between ~~neighbouring~~ neighboring grooves.

8. (amended) The optical ~~Optical~~ record carrier ~~according to~~ of Claim 7, wherein the phase of the wobble of only one of the ~~neighbouring~~ neighboring grooves is adapted to the presence of a pit at an information position.

9. (amended) The optical ~~Optical~~ record carrier ~~according to~~ of Claim 7, wherein the phases of both ~~neighbouring~~ neighboring grooves are adapted to the presence of a pit at an information position and the wobbles of both ~~neighbouring~~ neighboring grooves are in anti-phase.

10. (amended) The optical ~~Optical~~ record carrier ~~according to~~ of Claim 1, wherein the information positions are grouped in doublets of two ~~neighbouring~~ neighboring predetermined positions, and one pit is present in each doublet.

11. (amended) The optical ~~Optical~~ record carrier ~~according to~~ of Claim 1, wherein land portions are arranged between ~~neighbouring~~ neighboring grooves, and land portions are alternately provided with pits and without pits.

12. (new) The optical record carrier of Claim 1, wherein:

the number of periods of the wobble on the record carrier having a phase pertaining to an information position containing no pit is larger than the number of periods of the wobble having a different phase;

the predetermined positions are arranged in cells, and the first period of the wobble after the start of the cell pertains to an information position having a pit;

the wobble has a minimum value at an information position with pit and a maximum value at an information position without pit;

the information positions are grouped in series and the wobble in between the series of information positions in the track direction represents information;

the information in the wobble is encoded by phase-shift keying;

the predetermined positions are arranged between neighboring grooves;

the adoption of the wobble to the pit is selected from: the phase of the wobble of only one of the neighboring grooves is adapted to the presence of a pit at an information position; and the phases of both neighboring grooves are adapted to the presence of a pit at an information position and the wobbles of both neighboring grooves are in anti-phase;

the information positions are grouped in doublets of two neighboring predetermined positions, and one pit is present in each doublet; and

land portions are arranged between neighboring grooves, and land portions are alternately provided with pits and without pits.

13. (new) An optical record carrier comprising a recording layer having substantially parallel tracks, the tracks having

predetermined positions at regular intervals along the tracks, some predetermined positions having respective pits and other predetermined positions having no pits, the tracks each having two borders, at least one of the borders having a wobble with a phase, a part of the predetermined positions being information positions, information being stored at the information positions, the stored information being represented by the presence of respective pits at the information positions, and the phase of the wobble changes depending on the presence of pits at the predetermined positions.

14 (new) The optical record carrier of claim 13 wherein the wobble changes phase between each two subsequent predetermined positions along the tracks of which one of the positions contains a pit and the other position contains no pit.

15. (new) the optical record carrier of claim 13 wherein the border at predetermined positions having respective pits has a first phase and the border at predetermined positions having no pits has a second phase that is different than the first phase.

16. The optical record carrier of Claim 13, wherein:

all the information portions having no pit have the same phase and the number of periods of the wobble having the phase corresponding to an information position containing no pit is larger than the number of periods of the wobble having a different phase;

the predetermined positions are arranged in cells, the first predetermined position after the start of a cell being an information position having a pit, and the phase of the wobble immediately after the start of the cell corresponds to an information position having a pit;

the wobble has a minimum value at an information position with a pit and a maximum value at an information position without pit;

the information positions are grouped in series along the track, the predetermined positions that are not information positions are also grouped in series along the track, the groups of information portions alternating with the groups of predetermined positions that are not information positions;

the wobble at a series of predetermined positions along the track that are not information positions represents information;

the information in the wobble is encoded by phase-shift keying;

the tracks comprise lands between grooves, the borders of the tracks being borders between the lands and the grooves;

the changing of the phase of the wobble depending on the presence of a pit at a predetermined position is selected from: the phase of the wobble of only one border of the track changes depending on the presence of a pit at an predetermined position; and the phases of both borders of a track changes depending on the presence of a pit at an information position and the wobbles of both borders are in anti-phase;

the information positions are grouped in doublets of two neighboring predetermined positions, and exactly one pit is present in each doublet.